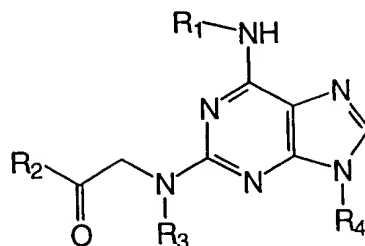


ABSTRACT

Compounds of formula 1:



wherein

R₁ is alkyl, cycloalkyl, aryl, aralkyl, heteroaryl, or heteroaralkyl,
substituted with 0-3 substituents selected from lower alkyl, halo, hydroxy,
lower alkoxy, amino, lower alkyl-amino, and nitro;

R₂ is hydroxy, amino, or lower alkoxy;

R₃ is H, lower alkyl, lower acyl, lower alkoxy-acyl, or amino-acyl;

R₄ is H or lower alkyl;

and pharmaceutically acceptable salts and esters thereof;

are effective inhibitors of GSK3.

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